OPERATING INSTRUCTIONS

TLM-1503 / TLM-1703

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Introduction

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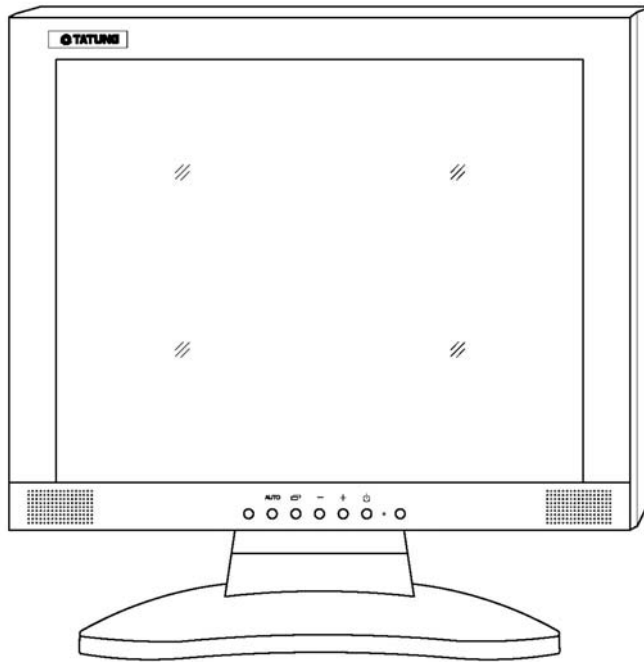
INTRODUCTION

Product Description

Congratulations on purchasing your new 15", 17" TLM monitor. Your LCD monitor incorporates a high quality display into a small light weight module. It has power-saving capabilities and emits no X-ray radiation.

This LCD monitor incorporates 15", 17" color active matrix thin-film transistor (TFT) liquid crystal display to provide superior display performance. A maximum resolution of 1280 x 1024 SXGA is ideal for displaying complex graphics and high definition images. Additional features that enhance this LCD monitor's performance are Plug & Play compatibility, audio system, and OSD (On Screen Display) controls.

Package Contents

- 15" or 17" TFT LCD monitor
- 15 pin D-sub signal cable
- AC power cable
- Operating Instructions

Product Features

- High contrast color TFT LCD display supports resolution up to 1280 x 1024 SXGA for 17" & 1024x768 XGA for 15".
- Compatible with IBM, VGA, VESA, and Macintosh standards.
- Imbedded audio system provides high performance.
- BNC video input and Loop through output
- DIN S-Video input and Loop through output
- RCA Audio inputs and outputs

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CLEANING

- ✍ Gently wipe your screen with a clean camel hair brush or a soft, clean, lint-free cloth
- ✍ Gently apply pressure to the screen surface to clean display
- ✍ Do not spray ANY liquid directly on the screen or casing of the LCD monitor
- ✍ Chemical cleaners have been reported to damage the screen or the LCD monitor

PRECAUTIONS

- ✍ Do not block vent holes with any objects
- ✍ Do not insert sharp objects or spill hazardous material onto the LCD (may cause fire, electric shock, or failure
- ✍ Disconnect the power plug from the AC outlet if you anticipate infrequent use
- ✍ Do not attempt to service this product yourself. Opening or removing casing may expose you to dangerous voltage points or other significant risks
- ✍ Avoid touching the screen directly with your fingers as the oils from your skin may be difficult to remove from the LCD
- ✍ Do not apply direct pressure on the screen
- ✍ Do not remove or modify any prongs from the power cord
- ✍ Disconnect the power plug from the AC outlet when the power cord or plug is damaged
- ✍ If the monitor case is damaged or the monitor malfunctions, do not try to repair yourself. Un-authorized repair will void your product warranty
- ✍ Do not allow any object to rest on the power cord
- ✍ Do not place this product in a high traffic environment where cord is exposed
- ✍ Always use the proper power cord with the correct plug adapter. If the power source is 120V AC, use a power cord that has UL and C-UL approvals. If the power source is 240V AC, use the tandem (T-blade) plug with a grounding that meets European country safety regulations (such as VDE for Germany)
- ✍ Do not overload wall outlets or power cords. Ensure total units plugged into wall does not exceed 10 amperes
- ✍ Ensure total current plugged into the extension cord does not exceed cords current rating
- ✍ Place monitor in a well ventilated environment
- ✍ Do not place monitor directly under sunlight or in cold, humid environments
- ✍ Keep monitor in a dust-free environment and away from strong electro-magnetic fields

CONTROL FUNCTION

Front View
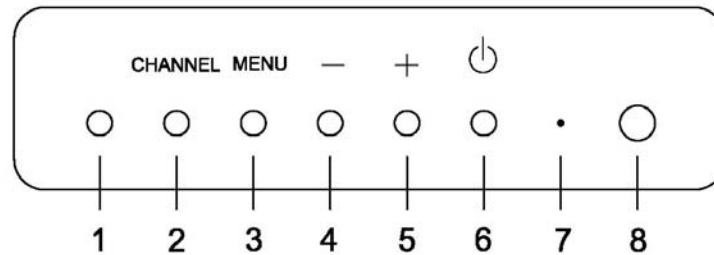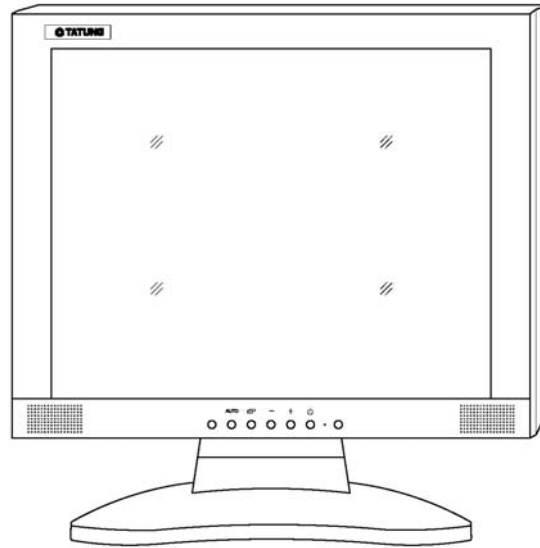
1. Light sensor   Compensate light output to optimize brightness
2. Channel   Select input mode: VGA>VIDEO>S-VIDEO>VGA>…
3. OSD menu   Selects OSD control options on the screen
4. Decrease   Decreases the value of selected OSD control option and decreases the volume
5. Increase   Increases the value of selected OSD control option and increases the volume
6. Power switch   Turns power on/off
7. Power LED   Indicates different status when unit operates in different modes
8. Infrared Receiver

OSD CONTROL

```
+-----------------------------------+      +-----------+
|            MAIN MENU              |      |  ENG      |
|                                   |      |  SPA      |
|       SXGA IN: 1280 X 1024        |      |  GER      |
|        H. SYNC: -48.3KHz          |      |  ITA      |
|        V. SYNC:  -63.8Hz          |      |  FRE      |
|                                   |      |  CHI      |
|   BRIGHTNESS                      |      +-----------+
|   CONTRAST                        |
|   COLOR TEMPERATURE               |      +-----------+   +---------+
|   LANGUAGE                        |      |  MUTE     |   |  OFF    |
|   OSD ADJUST                      |      |  VOLUME   |   |  ON     |
|   AUDIO CONTROL                   |      |  RECALL   |   +---------+
|   INPUT SELECTION                 |      |  RETURN   |
|   RECALL                          |      +-----------+
|   EXIT                            |
|                                   |      +-----------+
+-----------------------------------+      |  VGA IN   |
                                           |  VIDEO IN |
                                           |  S-VIDEO  |
                                           |  RETURN   |
                                           +-----------+
```

```
+-----------------------------------+
|          DISPLAY ADJUST           |
|                                   |
|   V-POSITION              050     |
|   H-POSITION              080     |
|   PITCH                   050     |
|   PHASE                   058     |
|   SHARPNESS               000     |
|   AUTO BRIGHTNESS OFF             |
|   AUTO TUNING                     |
|   RECALL                          |
|   RETURN                          |
|                                   |
+-----------------------------------+
```

```
+-----------------------------------+
|           VIDEO ADJUST            |
|                                   |
|   CONTRAST                050     |
|   BRIGHTNESS              050     |
|   COLOR                   050     |
|   SHARPNESS               000     |
|   HUE                     050     |
|   ASPECT RATIO    STANDARD/4:3    |
|   INPUT SELECT                    |
|   RECALL                          |
|   EXIT                            |
|                                   |
+-----------------------------------+
```

Note: There is no "ASPECT RATIO" for 15" model.

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BRIGHTNESS:	Adjusts background black level of the screen image
CONTRAST:	Adjusts foreground white level of the screen image
H. POSITION:	Moves the screen image left or right
V. POSITION:	Moves the screen image up or down
PITCH:	Adjusts image distortion appearing as vertical bars or "noise" on the screen
PHASE:	Adjusts image distortion appearing as horizontal bars or "noise" on the screen
SHARPNESS:	Adjusts the clarity and focus of the screen image
COLOR METER:	Adjusts color temperature
LANGUAGE:	Allows you to choose from English, French, German, Italian, or Spanish
AUDIO CONTROL:	Switch muting ON/OFF and controls volume
INPUT SELECTION:	Selects VGA, VIDEO, S-VIDEO signal inputs
RECALL:	Returns all controls back to default settings

HOT KEY CONTROL

1. VGA HOT KEY
   UP KEY > BRIGHTNESS
   DOWN KEY > CONTRAST

2. VGA + HOT KEY
   UP KEY > VOLUME INCREASE
   DOWN KEY > VOLUME DECREASE

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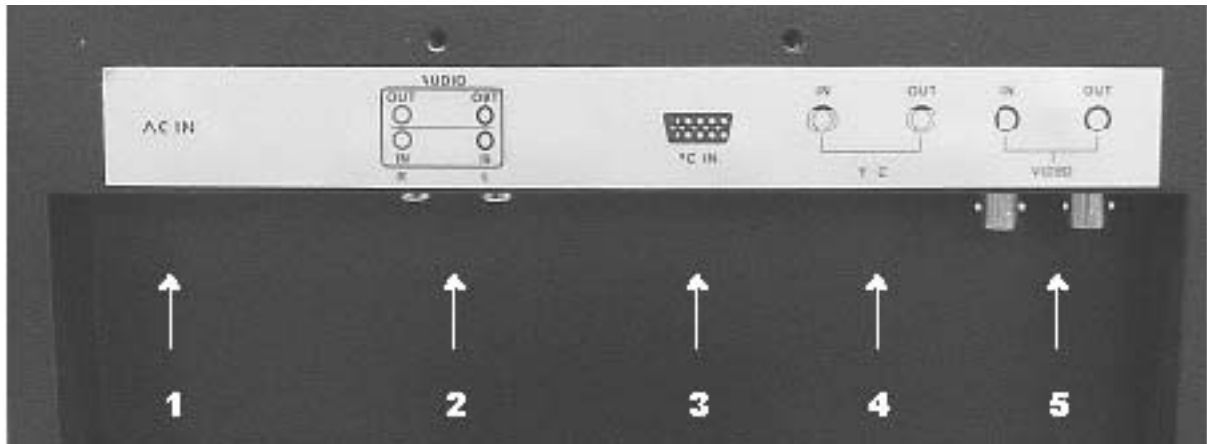
INPUTS/OUTPUTS

1. AC POWER INPUT: AC inlet for 110/220V power system
2. AUDIO INPUT/OUTPUT: Audio signal can be input into RCA sockets and loop through out
3. PC INPUT: This D-Sub 15 socket can be connected to a PC or DVR
4. S-VIDEO INPUT/OUTPUT: S-Video signal can be input into this DIN socket and loop through out
5. VIDEO INPUT/OUTPUT: Composite video signal can be input in this BNC socket and loop through out

DISPLAY ANGLE

The TLM-1503 / TLM-1703 can be manually adjusted to desirable angles.

TURN BACKWARD 5°

TURN LEFT 40°

TURN RIGHT 40°

TURN FORWARD 5°

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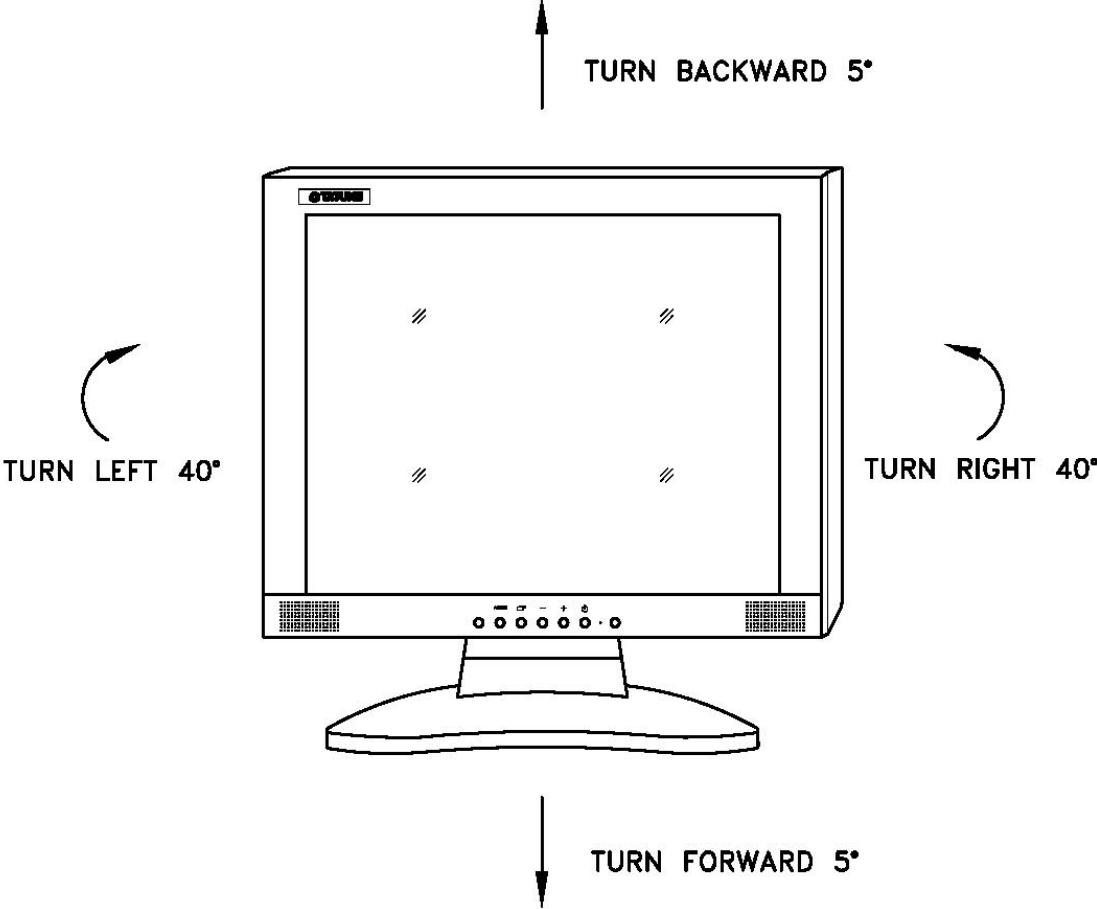
PRODUCT SPECIFICATIONS	
LCD Display	15" or 17" active matrix TFT LCD panel
Pixel pitch	15" 0.297(H) x 0.297(V)mm 17" 0.264(H) x 0.264(V)mm
Max. Resolution	15" - 1024(H) x 768(V) XGA 17" - 1280(H) x 1024(V) SXGA
Dimensions	448(V) x 430(H) x 200(D) mm
Packing Dimensions	475(V) x 475(H) x 220(D) mm
Contrast Ratio	500:1 (Typ.)
Brightness	15" - 400 Nit / 17" - 430Nit
Display Color	16.2M
Viewing Angle L/R U/D	15" 140° (Typ.) / 17" 140° (Typ.) 125° (Typ.) / 130° (Typ.)
I/O interface Video Sync.	RGB analog 0.7Vp-p TTL positive or negative Composite, Y/C
Display Mode	15" VGA / SVGA / XGA 17" VGA / SVGA / XGA / SXGA
PC connector	15 MIN d-SUB, s-Video connector, BNC video connector
Front control	Power on/off with LED, Menu select, Up/Down adjustment, Auto tuning, Light sensor
OSD adjustment	Contrast, Brightness, Auto tuning, Phase, H- Position, V-Position, Input selection
Power supply	AC Input: 100~240V/1.8A, 50-60Hz
Operating conditions	Humidity: 20%~80% Temperature: 0° C ~ 40° C
Storage conditions	Humidity: 10% ~ 90% Temperature: -20° C ~ 60° C
Certification	FCC, CE, UL, CUL
Weight	N/W: 6.5Kgs G/W: 8kgs

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DISPLAY MODES

Model	Resolution	H Freq (kHz)	V Freq (kHz)
0	720 x 350	31.469	70.087
1	640 x 480	31.469	59.940
2	640 x 480	35.000	66.667
3	640 x 480	37.861	72.809
4	640 x 480	37.500	75.000
5	720 x 400	31.469	70.087
6	800 x 600	35.156	56.250
7	800 x 600	37.879	60.317
8	800 x 600	48.077	72.188
9	800 x 600	46.875	75.000
10	832 x 624	49.750	74.500
11	1024 x 768	48.363	60.004
12	1024 x 768	56.476	70.069
13	1024 x 768	58.038	71.918
14	1024 x 768	60.023	75.029
*15	1280 x 1024	64.000	60.000
*16	1280 x 1024	80.000	75.000

Note: *Only 17" can support up to 1280x1024
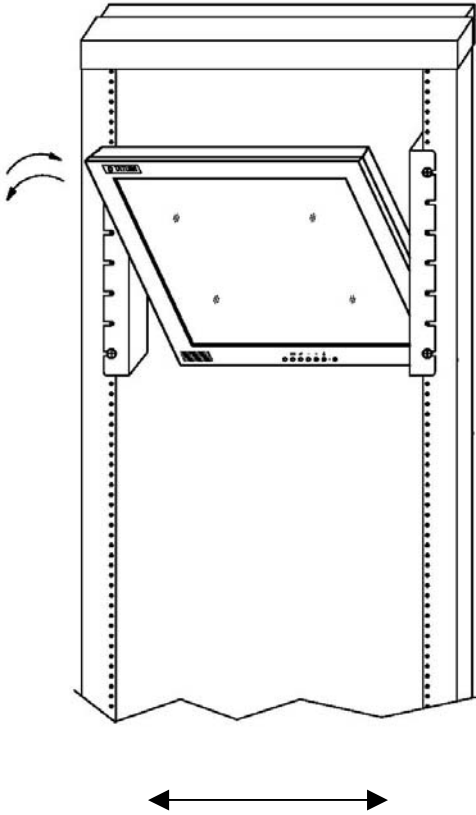
SERVICE INFORMATION

If you experience problems with this product, please contact us at (800) 829-2850 or (310) 637-2105 and ask for:

Gale Kroth, Service Rep ext. 242
Larry Chen, Service manager, ext. 216

OPTION RACK MOUNT KIT: TRK-1703C

19" EIA STANDARD OPEN RACK

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www.tatungusa.com